

FIG. 1

Search Criteria

Fill in at least one field. Fill more to narrow your search.

Need high speed? Try Fast Search.

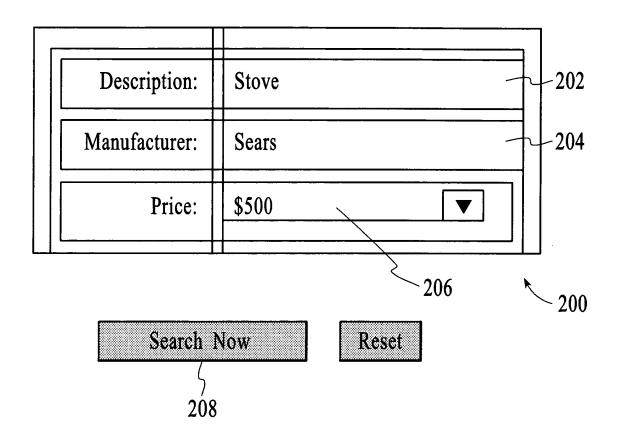


FIG. 2

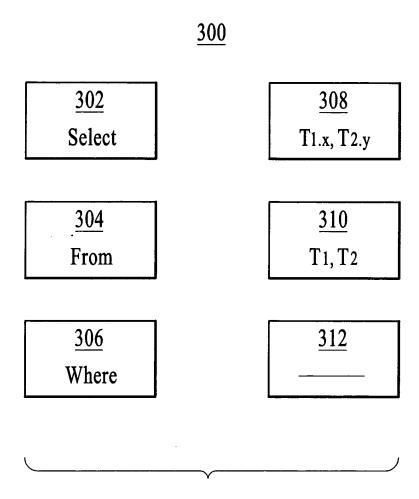


FIG. 3

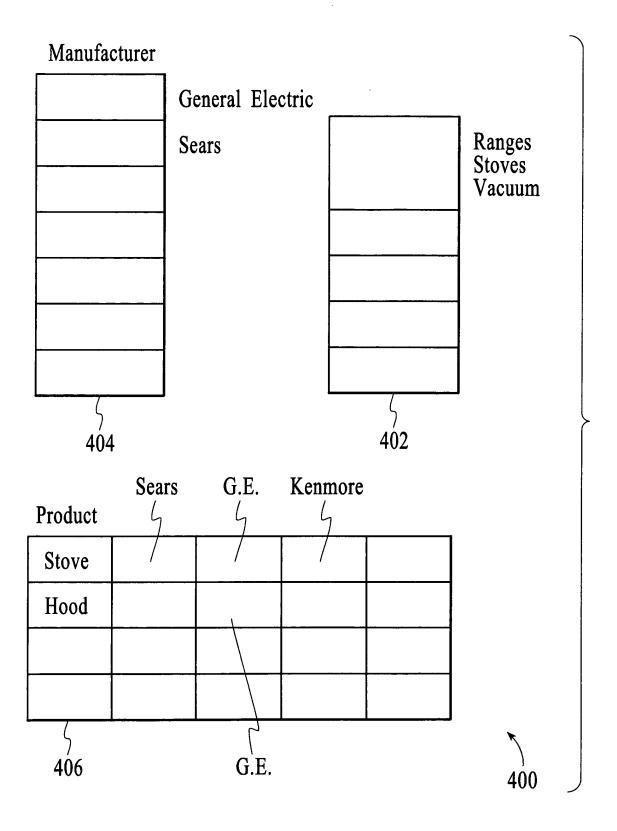


FIG. 4

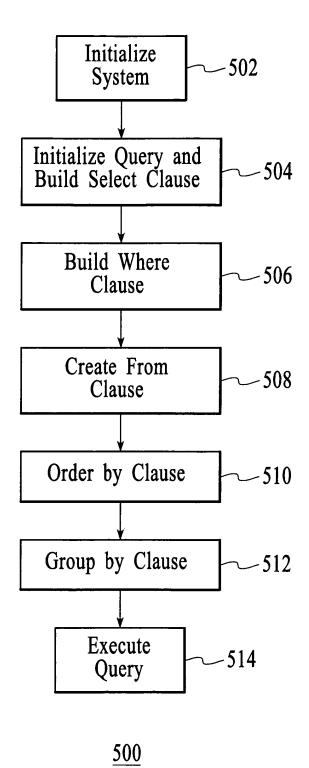
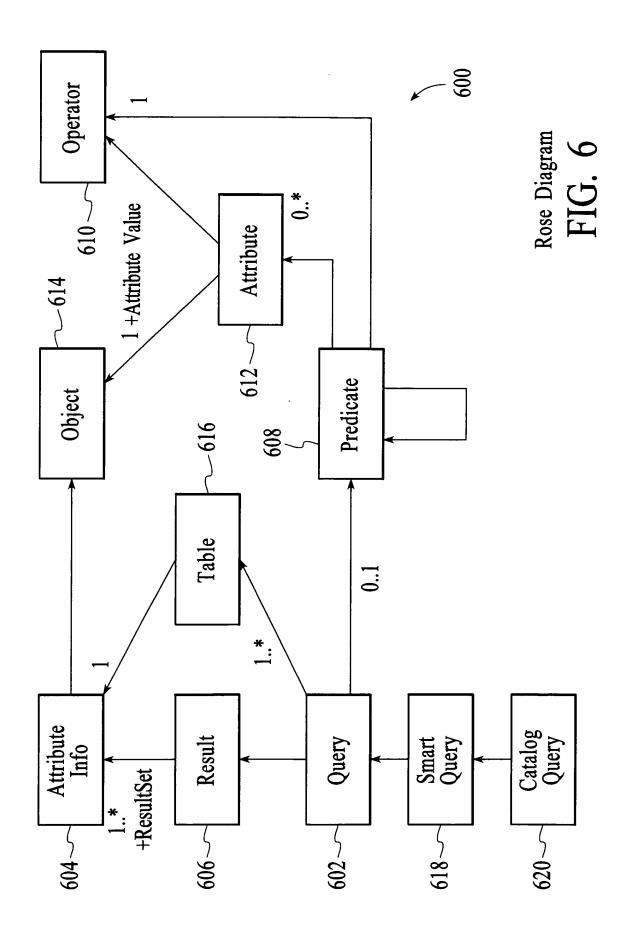
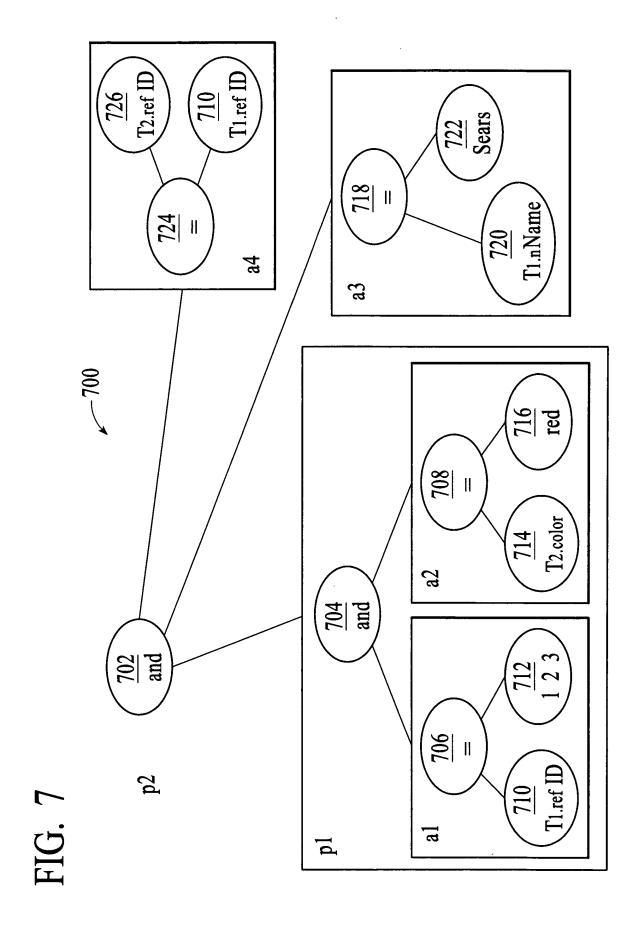


FIG. 5





```
// construct the simple search conditions
Attribute attr1 = new Attribute (CatRefldAttributeInfo, Operator.equal, "123");
Attribute attr2 = new Attribute (ColourttributeInfo, Operator.equal, "red");
Attribute attr3 = new Attribute (ManufactureAttributeInfo, Operator.equal, "Sears");
Attribute attr4 = new
Attribute (CatRefldAttributeInfo,Operator,equal,DescRefldAttributeInfo,);

// compose composite search conditions
Predicate p1 = new Predicate (Operator.and, {attr1, attr2} );
Predicate p2 = new Predicate (Operator.and, {p1, attr3, attr4} );

// execute the query
Query q = new Query ( )
q.setResultSet ({ CatRefldAttributeInfo, ...}) // result set contains catalog entryld
q.setPredicate (p2);
result = q.execute ( )
```

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FIG. 8

FIG. 9A(i)

```
// Predicate set
         // Part I
         Predicate p11 = new Predicate (); \sim 908a
         p11.setOperator (Operator.or);
         Attribute a111 = new Attribute (CatGrpDescNameAttributeInfo.getSingleton(), Operator.leftlike,
          "CATEGORY X");
         att1.setUppercaseQualifier(true);
910a ₹
         p11.addOperand (a111);
         Attribute a112 = new Attribute (CatGrpDescNameAttributeInfo.getSingleton(), Operator.leftlike,
          "CATEGORY10"
         a112.setUppercaseQualifier(true);
         p11.addOperand (a112);
         Predicate p12 = new Predicate ( ); \sim 908a
         p12.setOperator (Operator.and);
910a | p12.addOperand (new Attribute (ListPriceAttributeInfo.getSingleton( ), Operator.gt, "0.0"));
         p12.addOperand (new Attribute (StorelnvQuantityAttributeInfo.getSingleton(), Operator.gt, "0.0"));
         p12.addOperand (new Attribute (InventoryQuantityMeasureAttributeInfo.getSingleton(), Operator.isnull));
         p12.addOperand (p11);
         Predicate p13 = new Predicate (); \sim 908a
         p13.setOperator (Operator.and);
         p13.addOperand (new Attribute (ListPriceAttributeInfo.getSingleton( ), Operator.gt, "0.0"));
         p13.addOperand (new Attribute (StorelnvQuantityAttributeInfo.getSingleton(), Operator.gt, "0.0"));
910a / p13.addOperand (new Attribute (InventoryQuantityMeasureAttributeInfo.getSingleton(), Operator.isnull));
         Attribute a13 = new Attribute (CatGrpDescNameAttributeInfo.getSingleton(), Operator.leflike,
          "CATEGORY5");
         a13.setUppercaseQualifier(true);
         p13.addOperand (a13);
         Predicate p14 = new Predicate ( ); \sim 908a
910a 
p14.setOperator (Operator.or);
p14.addOperand (p12);
p14.addOperand (p13);
```

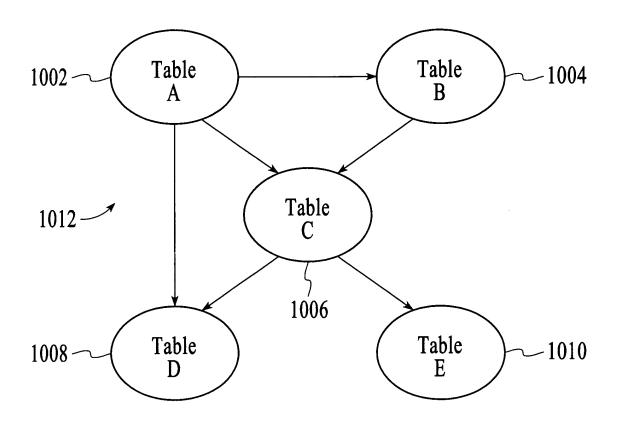
```
// Part II
         Predicate p2 = new Predicate ( ); \sim 908b
         p21.setOperator (Operator.or);
         Attribute a211 = new Attribute (CatGrpDescNameAttributeInfo.getSingleton(), Operator.leftlike,
         "CATEGORY Z");
         a211.setUppercaseQualifier(true);
910b ₹
         p21.addOperand (a211);
         Attribute a212 = new Attribute (CatGrpDescNameAttributeInfo.getSingleton(), Operator.leftlike,
         "CATEGORY9"
         a212.setUppercaseQualifier(true);
         p21.addOperand (a212);
         Predicate p22 = new Predicate ( ); \sim 908b
         p22.setOperator (Operator.and);
         p22.addOperand (new Attribute (ListPriceAttributeInfo.getSingleton( ), Operator.gt, "0.0"));
910b ₹
         p22.addOperand (new Attribute (StoreInvQuantityAttributeInfo.getSingleton(), Operator.gt, "0.0"));
         p22.addOperand (new Attribute (InventoryQuantityMeasureAttributeInfo.getSingleton(), Operator.isnull));
         p22.addOperand (p21);
         Predicate p23 = new Predicate (); \sim 908b
         p23.setOperator (Operator.and);
         p23.addOperand (new Attribute (ListPriceAttributeInfo.getSingleton(), Operator.gt, "0.0"));
         p23.addOperand (new Attribute (StoreInvQuantityAttributeInfo.getSingleton(), Operator.gt, "0.0"));
910b | p23.addOperand (new Attribute (InventoryQuantityMeasureAttributeInfo.getSingleton(), Operator.isnull));
         Attribute a23 = new Attribute (CatGrpDescNameAttributeInfo.getSingleton(), Operator.leflike,
         "CATEGORY4");
         a23.setUppercaseQualifier(true);
         p23.addOperand (a23);
         Predicate p24 = new Predicate (); \sim 908b
         p24.setOperator (Operator.or);
910b | p24.addOperand (p22);
         p24.addOperand (p23),
         p24.setNotQualifier(true);
         System.out.println(p24.toString());
```

## FIG. 9A(iii)

```
// Part IV -- Join
Predicate p4 = new Predicate (); \sim 912
p4.setOperator (Operator.and);
p4.addOperand (p14);
p4.addOperand (p24);
p4.addOperand (new Attribute (StoreCEntStoreIdentifierAttributeInfo.getSingleton(), ~914
Operator.eq, "2"));
p4.addOperand (new Attribute (UsersIdentifierAttributeInfo.getSingleton(), Operator.eq,
"1001"));
//p4.addOperand (p33);
MCQuery.setPredicate(p4); — 916
// Join
System.out.println("Auto Join: ");
MCQuery.printJointRelationships();
// Resolve source tables
MCQuery.resolveSourceTables(); — 918
// ORDER, GROUP and HAVING set
\label{lem:mcquery} \textbf{MCQuery.addResultOrder} (CatEntryldentifierAttributeInfo.getSingleton(\ ),
Operator.desc); — 920
System.out.println("MC Query: ");
System.out.println(MCQuery.toString());
com.ibm.commerce.base.objects.Cursor cursor = new
com.ibm.commerce.base.objects.Cursor();
java.util.Vector v = MCQuery.execute(cursor); —922
System.out.println("MC Query first 10 Result: ")
System.out.println(v);
cursor increment();
v = MCQuery.execute(cursor); ____922
System.out.println("MC Query next 10 Result: ");
System.println(v);
```

```
public void setPredicate(Predicate aPredicate) throws Exception {
            Predicate additionalP = additionalPredicate(); ~ 924
            if (additionalP != null) {
              Predicate p = new Predicate();
p.setOperator(Operator.and);
p.addOperand(aPredicate);
p.addOperand(additionalP);
setTableJointPredicate(p);
926
               setTableJointPredicate(aPredicate);
            private void setTablejointPredicate(Predicate aPredicate) throws Exception {
            Predicate jointP = resolveJointPredicate(aPredicate);
            if (jointP != null) {
               Predicate p = new Predicate();
               p.setOperator(Operator.and);
               p.addOperand(aPredicate);
               p.addOperand(jointP);
               super.setPredicate(p);
                                                       〜930
            else
               super.setPredicate(aPredicate);
```

FIG. 9B



<u>1000</u>

FIG. 10

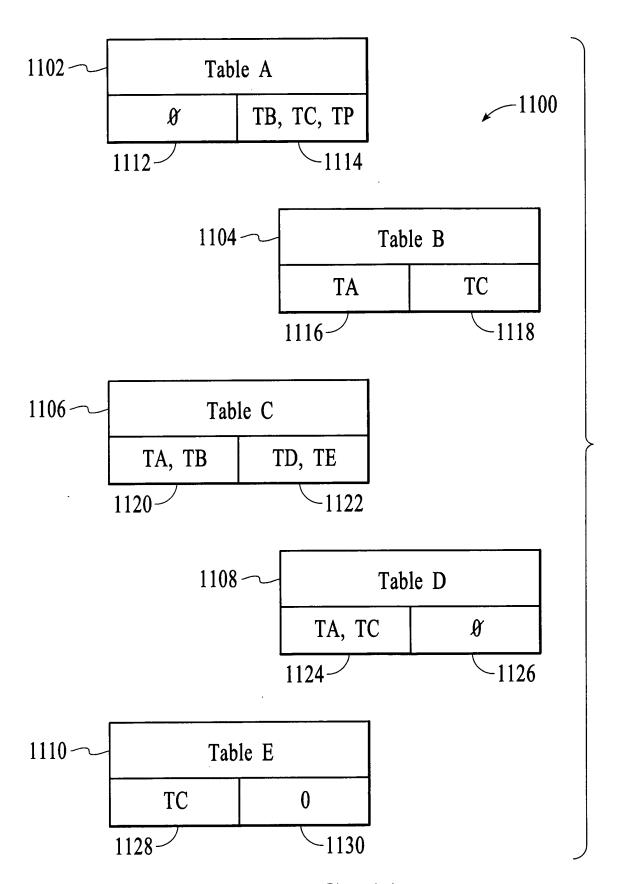


FIG. 11

